

New Mexico Poison and Drug Information Center - Albuquerque
 Arizona Poison and Drug Information Center – Tucson
 Banner Poison and Drug Information Center – Phoenix
 Utah Poison Center – Salt Lake City
 Rocky Mountain Poison and Drug Information Center – Denver
You can reach any of these poison centers via 1-800-222-1222

Situation Report: August 13, 2015 at 13:10

RE: Gold King Mine Water Contaminant Incident

Prepared by: Dr. Susan C. Smolinske, Pharm.D., DABAT
 Director, New Mexico Poison & Drug Information Center
 Professor, University of New Mexico, Dept. Pharmacy
 Practice and Administration

13:15 Aug 13 Current numbers since beginning of event Aug 5, 2015

Human exposure means individuals reporting concerns or symptoms (includes physicians calling regarding patients they are evaluating):

	8/8/15	8/9/15	8/10/15	8/11/15-8/13/15	Total
WATER RELATED					
Human Exposures	1 (CO)	1 (CO)	2 (NM) 5 (AZ)	4 (NM)	13
Animal Exposures	0	0	0	0	0
Information Calls	2 (NM)	0	2 (AZ)	2 (CO) 1 (NM)	7
Total	3	1	9	6	20

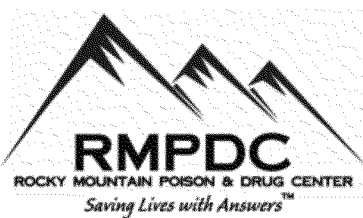
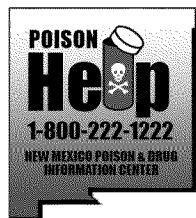
Note: Regular call volume is low, possibly would increase if poison centers are promoted as a source of information.

Symptoms reported from dermal exposure:

reddened skin, itching, rashes, fatigue, muscle pain, nausea, blood in stool

Symptoms reported from oral exposure:

Blood in stool



Evaluation of Cases From the Public Reported to the poison centers in 4 state region:

Utah: no calls

New Mexico: One new information call from a healthcare provider on 8/13/15; no new cases

On 8/10/15 we received a call regarding 2 human exposure cases from a husband and wife who were backpacking near Farmington, and drank 1.5 liters each out of river after backpacking at the trailhead, which was put through a charcoal filter; they saw sediment in bottom of their plastic container and tried not to drink the sludge. No symptoms have been reported. We are waiting for a call from their primary care MD to provide laboratory testing advice.

On 8/11/15 we received a call regarding 4 exposure cases from a family living in Albuquerque just returning from their cabin in Colorado. The exposures were dermal. 36 yoF, 43 YRM, 4 yoF, 7.5 yo M were playing in the river near Silverton Colorado for three days over the weekend, starting on Friday. They all had a burning sensation, erythema and itching on skin that lasted 2 hours before washing. The caller and spouse also claim fatigue and muscle pain. We felt skin reactions may be related but not systemic symptoms and have closed the cases.

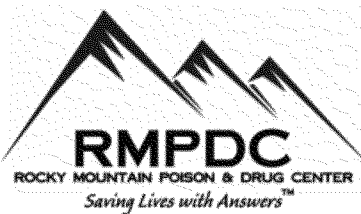
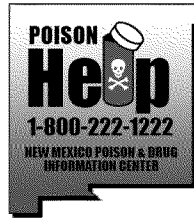
Arizona: (both poison centers): no new cases

1. 8/10: Pharmacist in clinic asking about potential for exposure to residents nearby and if they should stock chelation therapies with their limited budget.
2. 8/10: Family of 5 presented to local hospital after swimming in the Animas River on Friday (8/7).
8yo girl described blood in poop on Saturday but Norm BM on 8/10
10yo boy no complaints
14yo girl c/o HA and Nausea, described sensation like her hair was falling out but no hair loss
36yo mom was standing in the water. Slight nausea.
3. Tucson resident simply asked if her water was safe, after hearing about the spill in CO.

Colorado: no new cases

1. 8/8/15: 56yom staying in a cabin near river. Stored hen eggs in a bucket in the river to keep them cool. Bucket water supposedly clear. Ate the eggs on the 7th (1 day after spill) and presented to ED on 8th w/ complaints of diarrhea tinged w/ blood (also has h/o hemorrhoids). No labs/tests done.
2. 8/9/15: 3 children aged 8, 10, and 13 were taken to river to observe the spill. They played in the water and later ate dinner w/o washing hands first. Per father, they still had some water on their hands when they ate. All kids were ASX at time of call. No labs/tests recommended.

Surveillance:



The poison centers in four states will be conducting active surveillance of all calls related to the incident.

Important Issue to Address:

Miriam Wamsley at NMDOH has recommended a panel of tests to be recommended on patients with oral exposure to contaminated water from this incident.

Contaminant	Blood	24 urine
Aluminum	X	
Antimony		x
Arsenic		X
Cadmium	X	X
Chromium	X	
Cobalt	X	
Copper	X	
Lead	X	
Manganese	X (whole blood)	X
Mercury		X
Zinc		X

Current Status:

Number of calls is low, thus there is no need to activate the poison center emergency plan. Dr Seifert (Medical Director and toxicologist) will be attending the meeting tonight in Farmington with public health officials and ATSDR to provide expertise on the metals involved.

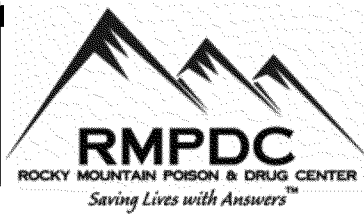
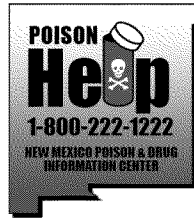
CDPHE has issued a press release. EPA and CDPHE has been testing the river water. Colorado had been seeing elevated levels of lead, cadmium, and manganese in the water.

NMPDIC is coordinating with the poison centers in Utah, Colorado, and Arizona and will provide daily combined situation reports ongoing. DOH will be offered the opportunity to receive automated NPDS surveillance emails.

Miriam Wamsley is the epidemiologist representing NMPDIC.

Toxicity Identification By the 4 poison centers:

Per reports from Colorado, the major contaminants of concern are manganese, cadmium, and lead. These are present at diminishing concentrations as the plume moves down the river, thus New Mexico



citizens will have less contamination concerns.

Current Concerns:

The two patients with oral exposure were instructed to have their primary care MD call the NMPDIC so that we can provide recommendations for lab testing. We have been unable to reach the family and their MD has not called.

Due to elevated well water manganese findings, EPA is investigating what standard should be used for swamp coolers and showering for those with affected wells.